

Rocks ▪ *Guided Reading and Study*

Metamorphic Rocks

This section explains how metamorphic rocks form, how they are classified, and how they are used.

Use Target Reading Skills

Look at Figure 17 and write two questions you have about the visuals in the graphic organizer below. As you read about metamorphic rocks, write the answers to your questions.

Q. Why do the crystals in gneiss line up in bands?
A.
Q.
A.

Introduction

1. List the two forces that can change rocks into metamorphic rocks.
 - a. _____
 - b. _____

Rocks ▪ *Guided Reading and Study*

Metamorphic Rocks *(continued)*

2. Is the following sentence true or false? Metamorphic rocks form deep beneath Earth's surface. _____
3. How do rocks change when they become metamorphic rocks?

4. What kinds of rocks can be changed into metamorphic rocks?

5. Is the following sentence true or false? The deeper a rock is buried in the crust, the less pressure there is on that rock. _____

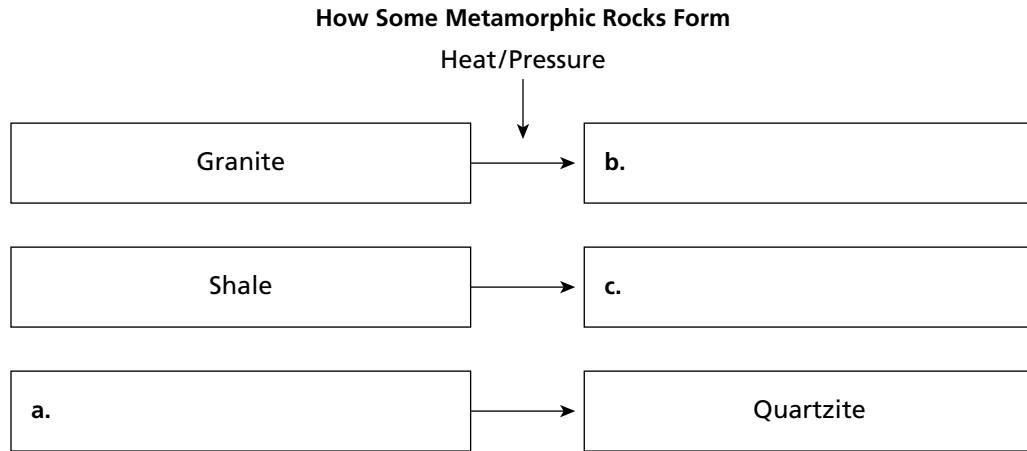
Types of Metamorphic Rocks

6. Is the following sentence true or false? Geologists classify metamorphic rocks by the arrangement of grains making up the rocks.

7. Metamorphic rocks with grains arranged in parallel layers or bands are said to be _____.
8. Circle the letter of each type of metamorphic rock that is foliated.
 - a. slate
 - b. quartzite
 - c. gneiss
 - d. marble
9. Metamorphic rocks with grains arranged randomly are said to be _____.
10. List two examples of nonfoliated metamorphic rocks.
 - a. _____
 - b. _____

Rocks ▪ *Guided Reading and Study*

11. Complete the flowchart to show the metamorphic rocks that are formed.



d. What does the flow chart show is happening to the rocks to the left?

Uses of Metamorphic Rock

12. Why is marble useful for buildings and statues? _____

13. What are some of the ways that slate is used? _____
